

CLEAR Summer School Technical Program

Sunday May 24		Monday May 25	Tuesday May 26	Wednesday May 27	Thursday May 28	Friday May 29			
	09:00 – 10:30	IL1	IL4	IL7	IL10	IL13			
	10:30 – 11:00	<i>Coffee break</i>							
	11:00 – 12:30	IL2	IL5	IL8	IL11	IL14			
	12:30 – 14:00	<i>Lunch break</i>							
	14:00 – 15:30	IL3	IL6	IL9	IL12				
Registration	15:30 – 16:00	<i>Coffee break</i>			Excursion		<i>Coffee break</i>		
	16:00 – 18:00	RDI	RD II	RD III			RD IV	RDV	RDVI
Opening Speeches	18:00 – 19:00	Poster session I		Poster session II					
	19:00 – 20:00								
Welcome reception	20:00	<i>Dinner</i>			Banquet				

IL: Invited Lecture
 RD: Roundtable Discussion

Monday May 25, 2009			
Chair: Prof. Angelos M. Efstathiou			
09:00-10:30	IL1	Gabrielle Centi University of Messina, Italy	The role of catalysis to enable a new sustainable industrial chemistry
Coffee break			
11:00-12:30	IL2	Walter Leitner University of Aachen, Germany	Green Solvents for Catalysis - From Molecular Understanding to Reaction Engineering Concepts
Lunch break			
Chair: Prof. Petra E. de Jongh			
14:00-15:30	IL3	Robbie Burch Queen's University of Belfast, UK	The challenge of simultaneously reducing CO ₂ emissions and NO _x emissions for automotive applications
Coffee break			
16:00-18:00	RD I	Coordinators: José de Figueiredo University of Porto, Portugal Robbie Burch Queen's University of Belfast, UK	Topic: Catalytic materials for environmental applications
	RD II	Coordinator: Juergen Caro University of Hannover, Germany	Topic: Catalytic Reaction Engineering
	RD III	Coordinator: Walter Leitner University of Aachen, Germany	Topic: Homogeneous Catalysis
18:00-19:00	Poster Session I		
20:00	Dinner		

Poster Session I

P1	Mayra Garcia Alvarez, Anna Maria Segarra Universitat Rovira i Virgili, Spain	Activated hydrotalcites as catalysts for glycerol conversion to commodity chemicals
P2	Matthias Arend RWTH Aachen University, Germany	Acrolein from glycerol
P3	Rosa Bonelli Bologna University, Italy	Gold/Iron cluster-derived catalysts for VOCs combustion
P4	Gemma Bret Cardiff University, UK	Liquid phase oxidation of glycerol using Au-Pd supported nanoparticles
P5	Javier Francisco da Costa Serra Instituto de Tecnología Química UPV-CSIC, Spain	High yield hydrogen production by steam reforming of bioethanol over nickel-supported catalysts
P6	Ana Raquel de la Osa Puebla University of Castilla-La Mancha, Spain	Diesel production from synthesis gas in a bench scale plant
P7	Valentina Gombac University of Trieste, Italy	Photocatalytic H ₂ over optimized Cu _x O-TiO ₂ nanocomposites
P8	Anastasios Kambolis University of Patras, Greece	Synthesis gas production from biogas via dry reforming process over Ni-CeO ₂ -ZrO ₂ catalysts
P9	Vasilis Kournoutis University of Patras, Greece	CO combustion on La-Sr-Fe and La-Sr-Co-Fe perovskites
P10	Paulina Kwintal Technical University of Lodz, Poland	Fe-Co-SiO ₂ for Fischer-Tropsch Synthesis
P11	Barbara Lorenzut University of Trieste, Italy	Ruthenium nanoparticles embedded catalysts for H ₂ production from ammonia decomposition
P12	Christina Martavaltzi Aristotle University of Thessaloniki, Greece	Hydrogen production and CO ₂ separation in a single-step process: Development of a new hybrid (CO ₂ sorbent and reforming catalyst) material, NiO-CaO-Ca ₁₂ Al ₁₄ O ₃₃
P13	Teresa Mata University of Porto, Portugal	Sustainability of Biodiesel: How to Assess Different Production Process Alternatives?
P14	Salim Nassreddine IRCE Lyon, France	Design of iridium-based catalysts for hydrocarbon selective ring opening
P15	Elaine Neville University College Dublin, Ireland	Systematic preparation of C-doped TiO ₂ : Towards more efficient photocatalysts
P16	Raquel Fraile Olivera ICP-CSIC, Spain	Hydrogen production by ethanol partial oxidation: a reaction network
P17	Chrysa Pagkoura CPERI/CERTH, Greece	Synthesis and Evaluation of Candidate Catalysts for the Sulphuric Acid Decomposition Step in Sulphur-Based Thermochemical Cycles for Hydrogen Production
P18	Patricia Perez-Presas ICP-CSIC, Spain	Highly efficient deep desulfurization of fuels by chemical oxidation
P19	Elodie Rodriguez Goncalves University of Porto, Portugal	Noble metal catalysts supported on activated carbon for the selective oxidation of glycerol
P20	Stelios Stephanidis CPERI/CERTH, Greece	Biomass catalytic pyrolysis for the production of bio-fuels and chemicals
P21	Georgi Topalov IEES-BAS, Bulgaria	Estimation of the Catalytic Activity of Co-sputtered Platinum-Iridium Catalysts Toward Oxygen Reduction Using Rotating Disc Electrode
P22	Mixail Tsampas University of Patras, Greece	Electrochemical promotion of CO oxidation on Pt/YSZ
P23	George Tsekouras University of St Andrews, UK	(La,Sr)TiO ₃ perovskites as cathode for solid oxide electrolysis cell
P24	Efterpi Vasiliadou Aristotle University of Thessaloniki, Greece	1,2-propanediol production from renewable glycerol via liquid-phase hydrogenolysis
P25	Haibo Xie Dublin City University, Ireland	Ionic liquids based technology for biomass conversion
P26	Qinqin Xu University of Bern, Switzerland	Electrocatalytic Study on Stepped Rh [n(111)x(110)] Single Crystal Electrodes
P27	Chen Zhao Peking University, China	Aqueous phase biphasic dehydroaromatization of bio-derived limonene into p-cymene by soluble Pd nanocluster catalysts

Tuesday May 26, 2009			
Chair: Prof. José de Figueiredo			
09:00-10:30	IL4	Pierre Gallezot IRC Lyon, France	Biorefineries for the production of chemicals
Coffee break			
11:00-12:30	IL5	Kristiina Kruus VTT, Finland	Enzymatic conversion of lignocellulosic biomass to fuels and chemicals
Lunch break			
Chair: Prof. Roel Prins			
14:00-15:30	IL6	Xenophon Verykios University of Patras, Greece	Hydrogen production from renewable sources for energy applications
Coffee break			
16:00-18:00	RD IV	Coordinators: Pierre Gallezot IRC Lyon, France Kristiina Kruus VTT, Finland	Topic: Biomass Conversion Technologies
	RD V	Coordinators: Xenophon Verykios University of Patras, Greece Dimitris Kondarides University of Patras, Greece	Topic: Hydrogen Production
	RD VI	Coordinator: Evelina Slavcheva IEES-BAS, Bulgaria	Topic: Electrochemistry
18:00-19:00	Poster Session II		
20:00	Dinner		

Poster Session I I

P28	Salete Balula University of Aveiro, Portugal	Liquid-phase oxidation catalysed by copper(II) immobilised in a pillared layered double hydroxide
P29	Noelia Barrabes Universitat Rovira i Virgili,, Spain	Hydrodechlorination of trichloroethylene on noble metal promoted Cu-hydrotalcite-derived catalysts
P30	Katarzyna Bawolak-Olczak Technical University of Lodz, Poland	The kind of carbon deposition formed in partial oxidation of methane on supported Ni – Au catalysts
P31	Timea Benko Hungarian Academy of Sciences, Hungary	Propene total oxidation over gold catalysts: influence of TiO ₂ and CeO ₂ decoration on Au/mesoporous SBA-15
P32	Chrystanthi Berberidou Aristotle University of Thessaloniki, Greece	Homogenous photocatalytic inactivation of prion contaminated stainless steel and rutile particles
P33	Olga Bulavchenko Boreskov Institute of Catalysis, Russia	In situ investigation of Mn-Al-O catalyst of deep oxidation
P34	Rui Miguel Carrilho University of Coimbra, Portugal	Novel C3-symmetrical chiral monophosphite ligands: Synthesis and evaluation in rhodium-catalyzed hydroformylation
P35	Petrica Dulgheru University College Dublin, Ireland	Rare earth doped ceria zirconia solid solutions for soot combustion
P36	Matthias Eisenacher RWTH Aachen University, Germany	Nb dispersed mesoporous and microporous structured catalysts and their performance in gas phase Beckmann rearrangement of cyclohexanone oxime to ϵ -caprolactam
P37	Kevin Fennell University College Dublin, Ireland	Azacryptate Trapping of CO ₂ for Chemical Reduction
P38	Anne Mette Frey Utrecht University, Netherlands	Iron-Containing Zeolites Used as Catalysts for Selective Catalytic Reduction of NO
P39	Alexandra Goncalves University of Porto, Portugal	Highly dispersed cerium oxide on activated carbon as ozonation catalyst
P40	Andrew Gordon Queen's University of Belfast, UK	HC-SCR Reduction of NO _x Using Bi-Functional Catalysts
P41	Dmitry Ivanov Boreskov Institute of Catalysis, Russia	Influence of oxygen mobility on catalytic activity of La-Sr-Mn-O mixed oxides in the reaction of methane combustion
P42	Vicente Jimenez Cotillas University of Castilla–La Mancha, Spain	Optimization of the chemical activation method to prepare activated carbon nanofibers: new catalyst support and storage hydrogen materials
P43	Vijay K. Kanuru University of Cambridge, UK	New directions in metal catalyzed C-C coupling reactions: a study by model and practical catalysts
P44	Georgia Kastrinaki CPERI/CERTH, Greece	Aerosol-Based One-Step Synthesis of Porous Core-Shell Nanoparticles
P45	Irina Kolesnik Moscow State University, Russia	Synthesis and catalytic properties of mesoporous titanium oxide and related nanocomposites
P46	Eliska Leitmannova Institute of Chemical Technology Prague, Czech Republic	Catalysts for β -Pineneoxide Transformation
P47	Kristine Liao University of Cambridge, UK	Study of the Heat of Adsorption of Carbon Monoxide co-adsorbed with Hydrogen on Iron and Cobalt Surfaces

Poster Session I I

P48	Ivana Lusticka Institute of Chemical Technology Prague, Czech Republic	Sorbic acid hydrogenation
P49	Loredana Mantarosie Queen's University Belfast, UK	Novel Pd Ce /Al ₂ O ₃ catalysts for the selective hydrogenation of acetylene in ethylene-rich feedstocks
P50	Pawel Mierczynski Technical University of Lodz, Poland	Gold and silver doped copper supported catalysts in methanol synthesis
P51	Silvia Morales de la Rosa Instituto de Catálisis y Petroleoquímica, CSIC, Spain	Catalytic Epoxidation of 1-Octene with Ethylbenzene Hydroperoxide Using Molybdenum Heterogeneous Catalyst
P52	Emilio Munoz Vega University of Oviedo, Spain	Optimization of Ammonia Selective Catalytic Reduction of NOx in a pilot-scale Reverse Flow Reactor
P53	Patricia dos Santos Neves University of Aveiro, Portugal	Catalytic epoxidation activity of a dioxomolybdenum(VI) complex bearing a chiral tetradentate bis-oxazoline ligand
P54	George Olympiou University of Cyprus, Cyprus	Low-Temperature H ₂ -SCR of NOx on a Novel Pt/MgO-CeO ₂ Catalyst: Effects of Pd and Support Primary Crystal Size
P55	Carla Alexandra Orge Fonseca University of Porto, Portugal	Ceria and cerium-based mixed oxides as ozonation catalysts
P56	Lucie Potucka Institute of Chemical Technology Prague, Czech Republic	Synthesis of Potassium Amminetrichloridoplatinate(II)
P57	Antonis Psarras CPERI/CERTH, Greece	FTIR investigation of accessible acidity of FCC catalysts
P58	Serap Sahin Abo Akademi University, Finland	One-pot synthesis of R-1-phenylethyl acetate by utilizing bio-chemo cascades
P59	Isabel Santos Vieira University of Aveiro, Portugal	Oxidation of terpenes: a different catalytic behaviour with metalloporphyrins or polyoxometalates
P60	Linda Sherry University College Dublin, Ireland	Modified Mesoporous Silicas as Heterogeneous Catalysis in FAME Production
P61	Juliana Sousa University of Porto, Portugal	Preparation of N-enriched carbon for wet air oxidation of aniline
P62	Cristina-Elena Stere Queen's University Belfast, UK	SpaciMS - probing what is hidden within a catalytic monolith
P63	Ervin Szabo Hungarian Academy of Sciences, Hungary	The role of redox type modifiers on supported gold catalysts in CO oxidation
P64	Karina Tomaszewska Technical University of Lodz, Poland	Catalytic degradation of polyolefins - the effect of natural zeolite on the process and chemical composition of the liquid products
P65	Valentina Trevisan Università Cà Foscari/Consorzio INSTM-UdR, Italy	Visible light active titania photocatalysts doped with carbon for NO oxidation
P66	George Tsilomelekis University of Patras, Greece	Structure – performance relationships for MoO ₃ /TiO ₂ catalysts for the ODH of ethane studied by operando Raman spectroscopy
P67	Elżbieta Wojciechowska Technical University of Lodz, Poland	Catalytic oxidation of odour nitrogen-containing compounds

Wednesday May 27, 2009			
Chair: Prof. Robbie Burch			
09:00-10:30	IL7	Costas G. Vayenas University of Patras, Greece	Promotion, Electrochemical Promotion, Spillover and Metal-Support Interactions
Coffee break			
11:00-12:30	IL8	Dimitris Kondarides University of Patras, Greece	Heterogeneous Photocatalysis: Fundamentals and Applications in Environmental and Renewable Energy-Related Processes
Lunch break			
Chair: Prof. Juergen Caro			
14:00-15:30	IL9	Jose de Figueiredo University of Porto, Portugal	Carbon-based catalysts
Excursion: Boat trip to Mt Athos			

Thursday May 28, 2009			
Chair: Prof. Chris Adams			
09:00-10:30	IL10	Petra E. de Jongh Utrecht University, Netherlands	Precision in preparation and characterization of 3D nanostructured materials
Coffee break			
11:00-12:30	IL11	Juergen Caro University of Hannover, Germany	Catalytic Membrane Reactors
Lunch break			
Chair: Prof. Dimitris Kondarides			
14:00-15:30	IL12	Guy Marin University of Gent, Belgium	Multi-scale modeling and design of catalytic reactions
Coffee break			
16:00-17:00	Contextual input		
	Roel Prins	EFCATS	
	Chris Adams	ACENET	
	Johannes Lercher	IDECAT	
20:00	Banquet		

Friday May 29, 2009			
Chair: Prof. Guy Marin			
09:00-10:30	IL13	Roel Prins ETH Zurich, Switzerland	Producing Environmentally Acceptable Fuels
Coffee break			
11:00-12:30	IL14	Johannes A. Lercher TUM, Germany	Selective catalytic conversion of lignin and alcohols in water
Closing Remarks			
Official CLEAR Summer School Ending			